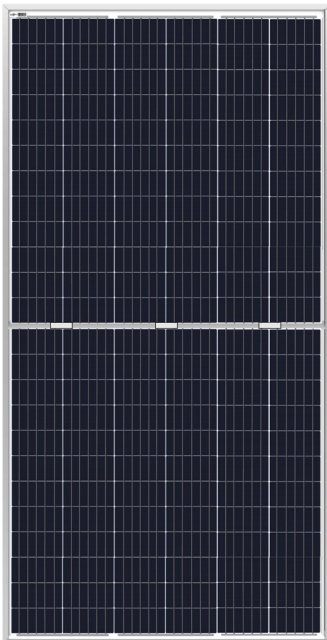


# DESERV<sup>®</sup> Extreme

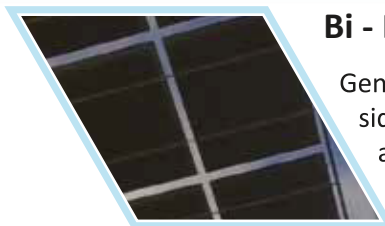
## Solar PV Module 395 Wp - 410 Wp

DESERV Extreme is an innovation engineered by combining Bi-Facial and Cut Mono PERC PV Cells. The Bi-Faciality is facilitated by a 'Transparent Backsheet' developed in-house.



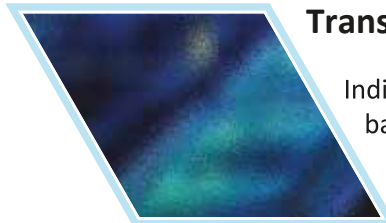
India's most efficient Solar PV Module - 'DESERV Extreme'.

It delivers a front face output of 410 Wp giving up to 530 Wp @30% Albedo.



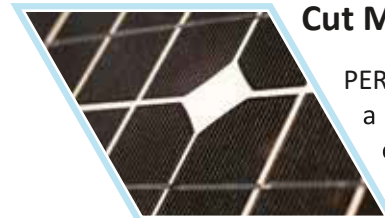
### Bi - Facial

Generates power from both sides, hence higher efficiency and power density



### Transparent Fluoro Backsheet

India's first transparent fluoro backsheet designed in-house



### Cut Mono PERC Cells

PERC Solar PV Cells have a better spectrum operating range and passivation

## KEY FEATURES



Made in India



Positive power tolerance



Highly reliable anti- reflective coated glass



High operating currents and voltages



More energy per square meter area



Better performance under shading

IMS Certified Company  
(ISO 9001: 2015, OHSAS 45001: 2018 & EMS - ISO 14001: 2015)

Independently Audited by



**Corporate Office:** Unit No. 607, 6th Floor, Trade Center, Bandra-Kurla Complex, Bandra East, Mumbai - 400 051, Maharashtra, India.  
Tel.: +91 22 6810 0500

**Factory:** Plot No.6, Survey # 114/P, Srinagar Village, Maheshwaram Mandal, Dist - Rangareddy, Hyderabad - 501 359, Telangana, India.  
Tel.: +91 40 6730 3000

Performance under standard test conditions (1000w/m<sup>2</sup>, AM 1.5, 25 °C)

DESERV EXTREME	395	400	405	410
Rated power (Pmax), Wp	395	400	405	410
Max. power voltage (Vmp), V	40.24	40.54	40.66	40.75
Max. power current (Imp), A	09.82	09.88	09.97	10.07
Open circuit voltage (Voc), V	48.45	48.57	48.75	48.87
Short circuit current (Isc), A	10.27	10.33	10.41	10.52
Module efficiency (%)	19.40	19.64	19.89	20.13

NOCT (Wp) at 45 ± 2 °C @800 W/m <sup>2</sup>				
Pmax (W)	293.97	297.69	301.41	305.13
Max. power voltage (Vmp), V	36.80	37.07	37.18	37.26
Max. power current (Imp), A	07.99	08.04	08.11	08.19
Open circuit voltage (Voc), V	45.05	45.16	45.32	45.44
Short circuit current (Isc), A	08.39	08.43	08.50	08.59

Mechanical Characteristics	
Cable	No. 12 AWG, 4mm <sup>2</sup>
PV Connectors	MC4 Connectors / MC4 Compatible
Frame	Anodized Aluminum Alloy
Junction box	IP67 Junction box with 4 rail (3 bypass diodes)
Glass	3.2mm Thick low iron tempered

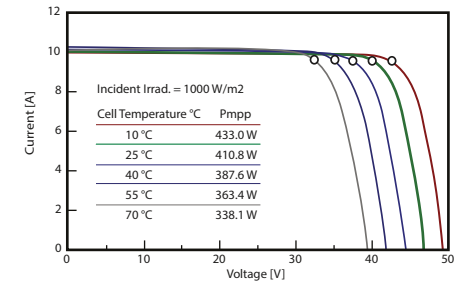
Operating Conditions	
Ambient temperature, °C	-40 to +85
Max. system voltage, Vdc	1000 or 1500
Hail impact velocity, m/sec	23
Max. surface load capacity, Pa	5400

Physical Parameters	
No. of cells	144
Module dimension (mm)	2036 X 1000 (± 2)
Module thickness (mm)	40 or 35
Approximate weight (kg)	22.7 or 22.3

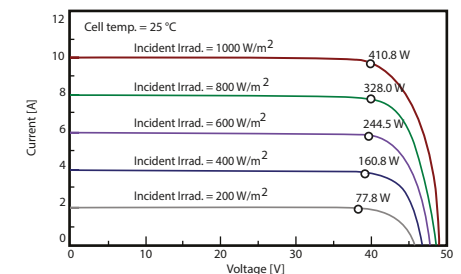
Bi-Facial Gain @Different Albedo (%)						
	Pm (Wp)	Vmp (V)	Imp (A)	Voc (V)	Isc (A)	Efficiency (%)
Front @STC	<b>395</b>	40.24	09.82	48.45	10.27	19.40
5%	414.75	40.24	10.31	48.45	10.78	20.37
10%	434.50	40.24	10.80	48.45	11.30	21.34
15%	454.25	40.24	11.29	48.45	11.81	22.31
20%	474.00	40.24	11.78	48.55	12.32	23.28
25%	493.75	40.24	12.28	48.55	12.84	24.25
30%	513.50	40.24	12.77	48.55	13.35	25.22
Front @STC	<b>405</b>	40.66	09.97	48.75	10.41	19.89
5%	425	40.66	10.47	48.75	10.93	20.88
10%	446	40.66	10.97	48.75	11.45	21.88
15%	466	40.66	11.47	48.75	11.97	22.87
20%	486	40.66	11.96	48.85	12.49	23.87
25%	506	40.66	12.46	48.85	13.01	24.86
30%	527	40.66	12.96	48.85	13.53	25.86

Cell Temperature Coefficient	
Open circuit voltage	-0.36 % / °C
Short circuit current	+0.07 % / °C
Nominal power	-0.38 % / °C

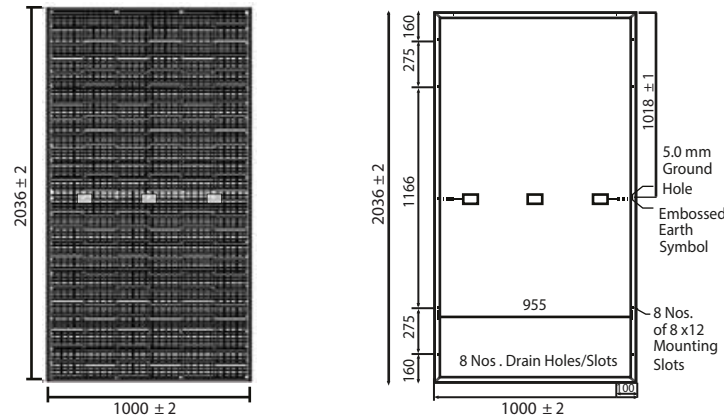
I-V Curves - Cell temperature sensitivity chart - 410 Wp



I-V Curves - Incident irradiance sensitivity chart - 410 Wp



Module dimensions (mm)



\*Due to continuous product updation, specifications may change without notice. Kindly refer to the website for latest information: [www.renewsysworld.com](http://www.renewsysworld.com) | [renewsys@renewsysindia.com](mailto:renewsys@renewsysindia.com)